## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/551,550
Source:	IFWP
Date Processed by STIC:	. 2/21/07

## ENTERED



ifw**p** 

RAW SEQUENCE LISTING DATE: 02/21/2007 PATENT APPLICATION: US/10/551,550 TIME: 14:20:03

Input Set: A:\10-551,550 Sequence Listing.txt
Output Set: N:\CRF4\02212007\J551550.raw

		<110> APPLICANT: Seikagaku Corporation															
		> TITLE OF INVENTION: Catalyst for cleaving sugar chain															
			FILE REFERENCE: Q90646														
9	<140	> Ct	CURRENT APPLICATION NUMBER: US 10/551,550														
	<141																
			PRIOR APPLICATION NUMBER: PCT/JP2004/004695														
13	<151	> PF	PRIOR FILING DATE: 2004-03-31														
15	<150	> PF	PRIOR APPLICATION NUMBER: JP 2003-097301														
16	<151	> PF	PRIOR FILING DATE: 2003-03-31														
18	<150	> PF	PRIOR APPLICATION NUMBER: JP 2003-113965														
19	<151	51> PRIOR FILING DATE: 2003-04-18															
21	<pre>&lt;160&gt; NUMBER OF SEQ ID NOS: 2</pre>																
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25	25 <211> LENGTH: 1308																
26	26 <212> TYPE: DNA																
27	7 <213> ORGANISM: Homo sapiens																
29	9 <220> FEATURE:																
30	<221> NAME/KEY: CDS																
31	<222> LOCATION: (1)(1308)																
		100> SEQUENCE: 1															•
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36	1				5					10					15		
37	gat	atg	gcc	caa	ggc	ttt	agg	ggc	ccc	ttg	cta	CCC	aac	cgg	CCC	ttc	96
38	Asp :	Met	Ala	Gln	Gly	Phe	Arg	Gly	Pro	Leu	Leu	Pro	Asn	Arg	Pro	Phe	
39				20					25					30			
	acc																144
41	Thr	Thr	Val	Trp	Asn	Ala	Asn	Thr	Gln	Trp	Cys	Leu	Glu	Arg	His	Gly	
42			35					40					45		•		
	gtg																192
44	Val .	Asp	Val	Asp	Val	Ser	Val	Phe	Asp	Val	Val	Ala	Asn	Pro	Gly	Gln	
45		50					55					60					
	acc																240
47	Thr	Phe	Arg	Gly	Pro	Asp	Met	Thr	Ile	Phe	Tyr	Ser	Ser	Gln	Leu	Gly	
	65					70					75					80	
49	acc	tac	ccc	tac	tac	acg	CCC	act	999	gag	cct	gtg	ttt	ggt	ggt	ctg	288
50	Thr	Tyr	Pro	Tyr	Tyr	Thr	Pro	Thr	Gly	Glu	Pro	Val	Phe	Gly	Gly	Leu	
51		-		-	85				-	90				_	95		
52	ccc	caq	aat	gcc	agc	ctg	att	gcc	cac	ctg	gcc	cgc	aca	ttc	cag	gac	336
	Pro																
54				100					105			_		110		-	
	atc	cta	act	qcc	ata	cct	qct	cct	qac	ttc	tca	qqa	cta	qca	qtc	atc	384
			_	_	-	_	_	_	_	_		223		_	-		

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	56 57	Ile	Leu	Ala 115	Ala	Ile	Pro	Ala	Pro 120	Asp	Phe	Ser	Gly	Leu 125	Ala	Val	Ile	
	58	gac	tgg	gag	gca	tgg	cgc	cca	cgc	tgg	gcc	ttc	aac	tgg	gac	acc	aag	432
	59 60	Asp	Trp 130	Glu	Ala	Trp	Arg	Pro 135	Arg	Trp	Ala	Phe	Asn 140	Trp	Asp	Thr	Lys	
	61	qac	att	tac	cgg	cag	cgc	tca	cgg	gca	ctg	gta	cag	gca	cag	cac	cct	480
					Arg													
•		145	•	<u>-</u>			150		_			155					160	
			taa	cca	gct	cct	caq	ata	qaq	qca	qta		caq	qac	caq	ttc	cag	528
					Ala													
	66					165					170			•		175		
		aga	act	qca	cgg	acc	taa	atq	qca	aac	acc	ctc	caq	ctq	aga	cqq	qca	576
					Arg													
	69	1		,-	180					185					190	-		
		cta	cat	cct	cgc	aac	ctc	taa	aac		tat	aac	ttc	cct		tac	tac	624
					Arg													
	72		••••	195	5	0-7			200		-1-	1		205		-1-	-1-	
		aac	tat		ttt	cta	age	aaa		tac	acc	aac	caq		cca	t.ca	aac	672
					Phe													, 0, 2
•	75	rion	210	*==^ <b>F</b> >	1110	104	DC1	215	11011	-1-		<b>01</b>	220	., , ,			.027	
		atc		acc	caa	aat	gac	–	cta	aaa	taa	cta		aac	cag	agc	cat.	720
					Gln													,_,
		225	**** 9	1114	0111		230	O		017		235		0-1			240	
			ctc	tat	ccc	agg		tac	atα	כככ	gca		cta	gag	ggc	aca		768
					Pro													
	81	mu	LCu	-1-	110	245		- / -			250		<b></b>	014	U.,	255	<b>U</b> -1	
		aad	tca	cad	atg		ata	caa	cac	cat		acc	gag	gca	ttc	-	ata	816
					Met													020
	84	шуз	DCI	0111	260	-1-	var	<b>0</b> 2	*****	265	• • • •		014		270			
		act	ata	act	gct	aat	gac	ccc	aat		cca	ata	cta	CCC		atc	cag	864
					Ala													
	87	AIU	Val	275	71.LU	017	1100		280			• • • •		285	-1-		<b></b>	
		ato	tta		gac	aca	aca	aac		+++	cta	ccc	cta		gag	cta	gag	912
					Asp													7
	90	110	290	- 7 -	nop		****	295		1110	200		300	1101	010			
		cac		cta	ggg	gag	agt		acc	cag	aaa	gca		gga	ata	ata	ctc	960
					Gly													500
		305	561	шси	Cly	Olu	310	niu	mru	0111	Cly	315	1114	017	141	• • • •	320	
			ata	200	tgg	ma a		202	202	200	220		tra	tat	cad	acc		1008
					Trp													1000
	96	пр	Val	Ser	пр	325	VOII	1111	Arg	1111	330	Giu	Der	Cys	GIII	335	110	
		224	~~~	+=+	atg		aat	202	ata	aaa		++0	ato	cta	220		200	1056
					Met													1050
	99	пуъ	Giu	ıyı	340	Asp	1111	1111	пец	345	FIU	FIIC	116	пец	350	Val	1111	
		٠	. ~~	. ~~	-		. +~	~+				. +~	- + a					1104
																	c cgc	1104
			. GI)	355		י הבו	. Cys	, 261	360		י חבו	LCY	. sei	365		, GT)	, Arg	
	102										. ~~		- c+				. aat	1152
																	cct	1152
	104	: Cys	, val	LAT	J ATG	ını	ser	Hls	s PIC	υγу	, AT	и тел	т тел	ι теι	т тег	I ASI	n Pro	

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105		370					375					380							
106	gcc	agt	ttc	tcc	atc	cag	ctc	acg	cct	ggt	ggt	ggg	CCC	ctg	agc	ctg	1200	) ·	
107	Āla	Ser	Phe	Ser	Ile	Gln	Leu	Thr	Pro	Gly	Gly	Gly	Pro	Leu	Ser	Leu			
	385					390				_	395	_				400			
		aat.	acc	ctc	tca		gaa	gat	caq	qca	caq	atq	act	ata	qaq	ttc	1248	3	
								Asp											
111	y	O <sub>T</sub>			405		0_0			410					415				•
		+~+	003	+ ~ ~		aat		'tgg	. cad		cca	taa	tat	gag		aan	1296	ger i seen Seen ook ook ook ook ook ook ook	
								Trp									1270		
	гур	Cys	Arg		ıyı	PIO	Gry	тър	425	AIA	PIO	ırp	Cys	430	Arg	пур			
114				420					423					430			1308	,	
	agc	_		tga													1300	,	
	Ser	Met	-																
117			435																
				NO:															
				I: 43	35														
122	<212	2> T)	PE:	PRT															
123	<213	3> OF	RGAN]	SM:	Homo	sar	piens	3											
				ICE:															
126-	Met	Ala	Ala	His	Leu	Leu	Pro	Ile	Cys	Ala.	Leu	Phe-	Leu	Thr	Leu	Leu			
127	1				5			•	•	10		•			15			7	• • •
128	Asp	Met	Ala	Gln	Gly	Phe	Arg	Gly	Pro	Leu	Leu	Pro	Asn	Arg	${\tt Pro}$	Phe			
129	-			20			_	_	25					30					
		Thr	Val	Trp	Asn	Ala	Asn	Thr	Gln	Trp	Cys	Leu	Glu	Arg	His	Gly			
131			35	-				40		-	•		45	_		_			
	Val	Asp		Asp	Val	Ser	Val	Phe	Asp	Val	Val	Ala	Asn	Pro	Glv	Gln			
133		50					55					60			4				
	Thr		Δτα	Glv	Pro	Asn		Thr	Tle	Phe	Tvr		Ser	Gln	Leu	Glv			
135		2110	n-9	Cry	110	70	1100				75			<b></b>		80			
		Tree.	Dro	m, ,,,,	Тиг		Pro	Thr	G] v	Glu		Val	Dhe	Glv	Glv				
	1111	ıyı	FIO	ıyı	85	1111	FIO	1111	Gry	90	110	Val	1110	Cly	95	100			
137	D	<b>~1</b> -	7	77-		T	т1 -	77.	uia		717	71 ***	Thr	Dho		Acn			
	PIO	GIII	ASII		ser	ьец	TIE	Ala		цец	Ala	Arg	TILL	110	GIII	ASP			
139				100	<b>-</b> 1 -	<b>5</b>		D	105	Dh.	0	<b>a</b> 1	T		1707	Tlo			
	тте	Leu		Ala	тте	Pro	Ата	Pro	Asp	Pne	ser	GIY		Ala	vai	TIE			
141	_	_	115		_	_	_	120	m		Dl	3	125	3	ml	T			
	Asp		GIu	Ala	Trp	Arg		Arg	Trp	Ala	Pne		Trp	Asp	Thr	гÀг			
143	_	130	_	_		_	135	_		_		140		~ ·	***	D			
		Ile	Tyr	Arg	Gln		Ser	Arg	Ala	Leu		GIn	Ala	GIn	His				
	145					150					155	_				160			
146	Asp	$\mathtt{Trp}$	Pro	Ala	Pro	Gln	Val	Glu	Ala	Val	Ala	Gln	Asp	Gln	Phe	Gln			
147					165					170					175				
148	Gly	Ala	Ala	Arg	Ala	Trp	Met	Ala	Gly	Thr	Leu	Gln	Leu	Gly	Arg	Ala			
149				180					185					190					
150	Leu	Arg	Pro	Arg	Gly	Leu	Trp	Gly	Phe	Tyr	Gly	Phe	Pro	Asp	Cys	Tyr			
151		_	195	_	_		_	200		-	-		205						
	Asn	Tyr	asa	Phe	Leu	Ser	Pro	Asn	Tyr	Thr	Gly	Gln	Cys	Pro	Ser	Gly			
153		210	•				215		-		•	220	-						
	Ile	Ara	Ala	Gln	Asn	Asp		Leu	Glv	Trp	Leu		Gly	Gln	Ser	Arg			
	225	ر				230			-4	- 2	235	•	-			240			
		Len	Tvr	Pro	Ser		Tvr	Met	Pro	Ala		Leu	Glu	Glv	Thr				•
-50		<b></b> _u	-1-				-1-							1		2			

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Input Set : A:\10-551,550 Sequence Listing.txt
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157					245					250					255	
158	Lys	Ser	Gln	Met	Tyr	Val	Gln	His	Arg	Val	Ala	Glu	Ala	Phe	Arg	Val
159				260					265					270		
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161			275					280					285			
162	Ile	Phe	Tyr	Asp	Thr	Thr	Asn	His	Phe	Leu	Pro	Leu	Asp	Glu	Leu	Glu
												300			, ~*	
164	His	Ser'	Leu	Gly	Glu	Ser	Ala	Ala	Gln	Gly	Ala	Ala	Gly	Val	Val	
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166	Trp	Val	Ser	$\mathtt{Trp}$	Glu	Asn	Thr	Arg	Thr	Lys	Glu	Ser	Cys	Gln		Ile
167					325										335	
168	Lys	Glu	Tyr	Met	Asp	Thr	Thr	Leu					Leu		Val	Thr
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170	Ser	Gly	Ala	Leu	Leu	Cys	Ser					Ser		His	Gly	Arg
			355				_						365			_
	_		Arg	Arg	Thr	Ser		Pro	Lys	Ala	Leu		Leu	Leu	Asn	Pro
		370			_	_	375	_				380	_	_	_	_
						Gln										
	365							_								
	_	GIy	AIa	Leu		Leu			GIn			Met	Ala	Val		Phe
177		_	_	_	405				~-7	410		_	<b>.</b>	<b>~</b> 3	415	<b>.</b>
		_	_	_	Tyr	Pro	GIY	_		Ala	Pro	Trp	Cys		Arg	ьys
	_			420					425					430		
	Ser		-													
181			435						١							

VERIFICATION SUMMARY

DATE: 02/21/2007

PATENT APPLICATION: US/10/551,550

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